Contents

Articles

- Popov, L.E., Bassett, M.G., Holmer, L.E. & Laurie, J.: Phylogenetic analysis of higher taxa of Brachiopoda
- 7 Walossek, D., Hinz-Schallreuter, İ., Shergold, J.H. & Müller, K.J.: Three-dimensional preservation of arthropod integument from the Middle Cambrian of Australia
- 17 Ackerly, S.C., Cisne, J.L., Railsback, L.B. & Anderson, T.F.: Punctal density in the Ordovician orthide brachiopod *Paucicrura rogata*: anatomical and paleoenvironmental variation
- 25 Brett, C.E., Boucot, A.J. & Jones, B.: Absolute depths of Silurian benthic assemblages
- 41 Baumiller, T.K.: Boreholes in Devonian blastoids and their implications for boring by platyceratids
- 49 Batt, R.: Ammonite morphotypes as indicators of oxygenation in a Cretaceous epicontinental sea
- 65 Dovle, P. & Macdonald, D.I.M.: Belemnite battlefields
- 81 Carbonnel, G. & Reyment, R.A.: L'ornementation chez l'ostracode Phalcocythere du Paléocène: résultat d'une action morphogène antagoniste?
- 89 Saraswati, P.K., Ramesh, R. & Navada, S.V.: Palaeogene isotopic temperatures of western India
- 101 Jacobs, D.K. & Landman, N.H.: Nautilus a poor model for the function and behavior of ammonoids?
- 113 Dagys, A.S. & Weitschat, W.: Extensive intraspecific variation in a Triassic ammonoid from Siberia
- 123 Meister, C.: L'évolution parallèle des Juraphyllitidae euroboréaux et téthysiens au Pliensbachien: le rôle des contraintes internes et externes [Parallel evolution in Euroboreal and Tethyan Juraphyllitidae: the role of internal and external constraints]
- 133 Shigeta, Y.: Post-hatching early life history of Cretaceous Ammonoidea
- 147 Skompski, S.S.: Shell structure and affinity of the Carboniferous microproblematicum Saccamminopsis
- 153 Alexander, R.R.: Correlation of shape and habit with sediment grain size for selected species of the bivalve Anadara
- 163 Donovan, S.K.: Contractile tissues in the cirri of ancient crinoids: criteria for recognition
- 171 McKinney, F.K. & Jaklin, A.: Living populations of free-lying bryozoans: implications for post-Paleozoic decline of the growth habit
- 189 Underwood, C.J.: The position of graptolites within Lower Palaeozoic planktic ecosystems
- 203 Zalasiewicz, J.: Dissepiments in the graptolite Monograptus turriculatus
- 207 Waters, J.A. & Horowitz, A.S.: Ordinal-level evolution in the Blastoidea
- 215 Tanabe, K., Landman, N.H., Mapes, R.H. & Faulkner, C.J.: Analysis of a Carboniferous embryonic ammonoid assemblage – implications for ammonoid embryology
- 225 Cunningham, C.R., Feldman, H.R., Franseen, E.K., Gastaldo, R.A., Mapes, G., Maples, C.G. & Schultze, H.-P.: The Upper Carboniferous Hamilton Fossil-Lagerstätte in Kansas: a valley-fill, tidally influenced deposit
- 237 Henwood, A.A.: Ecology and taphonomy of Dominican Republic amber and its inclusions
- 247 Moissette, P.: Bryozoan assemblages in Messinian deposits of western Algeria
- 261 Solounias, N. & Moelleken, S.C.M.: Tooth microwear and premaxillary shape of an archaic antelope

- 269 Robbins, L.L., Toler, S.K. & Donachy, J.E.: Immunological and biochemical analysis of test matrix proteins in living and fossil foraminifers
- 275 Briggs, D.E.G. & Kear, A.J.: Decay of Branchiostoma: implications for soft-tissue preservation in conodonts and other primitive chardetes
- 289 Sumrall, C.D.: Thecal designs in isorophinid edrioasteroids and their taxonomic implications
- 303 Simms, M.J.: Reinterpretation of thecal plate homology and phylogeny in the Class Crinoidea
- 313 Hladil, J.: Ostracodes swallowed by Palaeozoic corals?
- 319 Yang, Xiangning & Zheng, Hong: The spirotheca of the foraminifer Ouasifusulina
- 327 Fürsich, F.T.: Palaeoecology and evolution of Mesozoic salinitycontrolled benthic macroinvertebrate associations
- 347 Bocherens, H., Friis, E.M., Mariotti, A. & Pedersen, K.R.: Carbon isotopic abundances in Mesozoic and Cenozoic fossil plants: Palaeoecological implications
- 359 Feibel, C. S.: Freshwater stingrays from the Plio-Pleistocene of the Turkana Basin, Kenya and Ethiopia
- 367 Mackay, S., MacKinnon, D.I. & Williams, A.: Ultrastructure of the loop of terebratulide brachiopods
- 379 Signor, P.W.: Ratchet riposte: more on gastropod burrowing sculpture

Lethaia Seminar

- 5 Curry, G.B., Quinn, R., Collins, M.J., Endo, K., Ewing, S., Muyzer, G. & Westbroek, P.: Molecules and morphology the practical approach
- 47 Yochelson, E.L.: Molluscan affinity of coeloscleritophorans
- 48 Bengtson, S.: Molluscan affinity of coeloscleritophorans reply
- 99 Landman, N.H., Tanabe, K., Mapes, R.H., Klofak, S.M. & Whitehill, J.: Pseudosutures in Paleozoic ammonoids
- Histon, K.: Primary deposits in nautiloid cephalopods
 Miller, W.: Models of recurrent fossil assemblages
- 184 Allison, P.A. & Briggs, D.E.G.: Burgess Shale biotas: burrowed away?
- 185 Aronson, R.B.: Burgess Shale-type biotas were not just burrowed
- 186 Loydell, D.K.: Ludlow graptoloids from New York State: the search must continue
- 188 LoDuca, S.T. & Brett, C.E.: Graptolites and the Wenlockian/ Ludlovian boundary in western New York State: reply
- 246 Westermann, G.E.G.: On alleged negative buoyancy of ammonoids
- 260 Ebel, K.: Negative buoyancy of ammonoids reply
- 287 Zhuravlev, A.V.: Polygonal ornament in conodonts
- 383 Carlson, S.J.: Investigating brachiopod phylogeny and classification – response to Popov et al. 1993
- 385 Bassett, M.G., Holmer, L.E., Popov, L.E. & Laurie, J.: Phylogenetic analysis and classification of the Brachiopoda – reply and comments

Lethaia Forum

64 Kato, M.: International Palaeontological Association: General Assembly, Kyoto, August 26, 1992

- 112 Palmer, A.R., Robison, R.A., Rowell, A.J. & Taylor, M.E.: The Institute for Cambrian Studies – serving the international geological research community
- 122 Dutro, J.T., Jr.: Second Golden Trilobite Awards announced
- 145 Tiku, A.K.: Ninth International Gondwana Symposium India, January, 1994
- 146 Finney, S.C. & Rees, M.N.: 7th International Symposium on the Ordovician System
- 170 Yochelson, E.L.: International Palaeontological Association records to be archived
- 202 Nowlan, G.S.: Silurian Times
- 206 Johnson, M.E.: Second International Symposium on the Silurian System: The James Hall Meeting in 1996
- 214 Nowlan, G.S.: A Huddle on conodonts
- 274 Jeppsson, L. & Jerre, F.: Allekvia Geological Research Station

Editors' Column

16 Franzén, C. & Bengtson, S.: Lethaia grows

Index of contributors

Ackerly, S.C.	17
Alexander, R.R.	153
Allison, P.A.	184
Anderson, T.F.	17
Aronson, R.B.	185
Bassett, M.G.	1, 385
Batt, R.	49
Baumiller, T.K.	41
Bengtson, S.	16, 48
Bocherens, H.	347
Boucot, A.J.	25
Brett, C.E.	25, 188
Briggs, D.E.G.	184, 275
Carbonnel, G.	81
Carlson, S.J.	383
Cisne, J.L.	17
Collins, M.J.	5
Cunningham, C.R.	225
Curry, G.B.	5
Dagys, A.S.	113
Donachy, J.E.	269
Donovan, S.K.	163
Doyle, P.	65
Dutro, J.T.	122
Ebel, K.	260
Endo, K.	5
Ewing, S.	5
Faulkner, C.J.	215
Feibel, C. S.	359
Feldman, H.R.	225
Finney, S.C.	146
Franseen, E.K.	225
Franzén, C.	16
Friis, E.M.	347
Fürsich, F.T.	327
Gastaldo, R.A.	225
Henwood, A.A.	237
Hinz-Schallreuter, I.	7
Histon, K.	
Hladil, J.	179
	313
Holmer, L.E.	1, 385
Horowitz, A.S.	207
Jacobs, D.K.	101
Jaklin, A.	171
Jeppsson, L.	274
Jerre, F.	274
Johnson, M.E.	206
Jones, B.	25
Kato, M.	64
Kear, A.J.	275
Klofak, S.M.	99
Landman, N.H.	99, 101, 215
Laurie, J.	1, 385
LoDuca, S.T.	188

Loydell, D.K.	186
Macdonald, D.I.M.	65
Mackay, S.	367
	171
McKinney, F.K.	
MacKinnon, D.I.	367
Mapes, G.	225
Mapes, R.H.	99, 215
Maples, C.G.	225
Mariotti, A.	347
Meister, C.	123
Miller, W.	182
Moissette, P.	247
Moelleken, S.C.M.	261
Müller, K.J.	7
Muyzer, G.	5
Navada, S.V.	89
Nowlan, G.S.	202, 214
Palmer, A.R.	112
Pedersen, K.R.	347
Popov, L.E.	1, 385
Quinn, R.	5
Railsback, L.B.	17
Ramesh, R.	89
Rees, M.N.	146
Reyment, R.A.	81
Robbins, L.L.	269
Robison, R.A.	112
Rowell, A.J.	112
Saraswati, P.K.	89
Schultze, HP.	225
Shergold, J.H.	7
Shigeta, Y.	133
Signor, P.W.	379
Simms, M.J.	303
Skompski, S.S.	147
Solounias, N.	261
Sumrall, C.D.	289
Tanabe, K.	99, 215
Taylor, M.E.	112
Tiku, A.K.	145
Toler, S.K.	269
Underwood, C.J.	189
Walossek, D.	7
Waters, J.A.	207
Weitschat, W.	113
Westbroek, P.	5
Westermann, G.E.G.	246
Whitehill, J.	99
Williams, A.	367
Yang, Xiangning	319
Yochelson, E.L.	47, 170
Zalasiewicz, J.	203
Zheng, Hong	319
Zhuravlev, A.V.	287

